

LIST

MATERIAL SAFETY DATA SHEET

Dow Chemical U.S.A. Midland, MI 48674 Emergency Phone: 517-636-4400

MSD: 001556 Page: 1

PRODUCT NAME: DURSBAN (R) L.O. INSECTICIDE

Effective Date: 02/24/83 Date Printed: 10/16/85 Product Code: 26066

1. INGREDIENTS:

0,0,-Diethyl	
0-(3,5,6-trichloro-2-pyridyl)	
phosphorothioate, (chlorpyrifos)	41.5%
Xylene range aromatic solvent	11.5%
Inerts	47.0%

2. PHYSICAL DATA:

BOILING POINT: 290F, 143C
VAP PRESS: 24 mmHg @ 40C
VAP DENSITY:
SOL. IN WATER: Emulsifies
SP. GRAVITY: 1.16
APPEARANCE: Clear liquid.
ODOR: Aromatic type odor.

3. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT: 122F, 50C
METHOD USED: TCC

FLAMMABLE LIMITS
LFL: 1%
UFL: 6% (xylene)

EXTINGUISHING MEDIA: Water spray, carbon dioxide, and dry chemical.

FIRE & EXPLOSION HAZARDS: Foam system is preferred.
Toxic irritating gases may be formed. Rapid decomposition above 160-200C. Violent rupture of containers due to overpressurization may occur.

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3. FIRE AND EXPLOSION HAZARD DATA: (CONTINUED)

FIRE-FIGHTING EQUIPMENT: Use positive-pressure breathing apparatus.

4. REACTIVITY DATA:

STABILITY: (CONDITIONS TO AVOID) Avoid heating above 54C, 130F temperature for more than two hours. Chlorpyrifos undergoes exothermic decomposition which can lead to higher temperatures and violent decomposition if heat developed is not removed. Contains petroleum derivative solvent - will burn.

INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) Unstable at pH above 10. Consult manufacturer for specific cases.

HAZARDOUS DECOMPOSITION PRODUCTS: Hydrogen chloride, ethyl sulfide, diethyl sulfide and nitrogen oxides.

HAZARDOUS POLYMERIZATION: Will not occur.

5. ENVIRONMENTAL AND DISPOSAL INFORMATION:

ACTION TO TAKE FOR SPILLS/LEAKS: Absorb spills with material such as sand. Wash exposed body areas thoroughly after handling. Contain spill by diking to keep out of sewers. For large spills, barricade area, eliminate ignition sources, and consult manufacturer.

DISPOSAL METHOD: Do not contaminate food, feed, or water by storage or cleaning of equipment. Open burning is prohibited. Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of according to applicable federal, state or local procedures. If burial is permitted, bury in isolated, non-crop location away from domestic or natural water sources. Keep out of domestic or natural water sources.

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6. HEALTH HAZARD DATA:

EYE: Moderate irritation and corneal injury; effects should heal with time.

SKIN CONTACT: Prolonged contact: Moderate irritation.

SKIN ABSORPTION: LD50 rabbit >5000 mg/kg, low toxicity.

INGESTION: Moderate single dose toxicity; LD50 male rats 599 mg/kg, female rats 834 mg/kg.

INHALATION: ACGIH TLV 0.2 mg/m³ chlorpyrifos, 100 ppm xylene.

SYSTEMIC & OTHER EFFECTS: Drowsiness (solvent); cholinesterase inhibition (chlorpyrifos).

7. FIRST AID:

EYES: Irrigate with flowing water immediately and continuously for 15 minutes. Consult medical personnel.

SKIN: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician if irritation persists. Wash clothing before reuse. Destroy contaminated shoes.

INGESTION: Do not induce vomiting. Give large amounts of water or milk if available, and transport to medical facility.

INHALATION: Remove to fresh air if effects occur. Consult medical.

NOTE TO PHYSICIAN:

Eyes: May cause corneal injury or burn. Stain for evidence of corneal injury. If cornea is burned instill antibiotic steroid preparation frequently. Consult ophthalmologist.

Skin: May be slowly absorbed. Chronic low grade exposure may result in illness.

Respiratory: Vapors or mists may be toxic if produced.

Oral: May cause reactions similar to petroleum or

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7. FIRST AID: (CONTINUED)

petroleum-like solvent. If lavage is performed suggest endotracheal and/or esophagoscopy control. Danger of chemical pneumonia must be weighed against toxicity when considering emptying the stomach. Systemic: May produce organo-phosphorus type cholinesterase inhibition. Atropine by injection is antidote of choice. Oximes may or may not be therapeutic, but must never be used in place of atropine.

8. HANDLING PRECAUTIONS:

VENTILATION: Recommend control of xylene and chlorpyrifos to suggested guides.

RESPIRATORY PROTECTION: Approved organic vapor-type respirator required in absence of proper environmental control.

SKIN PROTECTION: Rubber gloves, boots, apron, gauntlets depending upon the extent and severity of exposure likely.

EYE PROTECTION: Chemical workers goggles.

9. ADDITIONAL INFORMATION:

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

MSDS STATUS: Revised 1, 2.

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